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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of)
TAKAHASHI et al.)
Application Number: 10/849,516)
Filed: May 20, 2004)
For: MAGNETIC SENSOR AND MAGNETIC HEAD WITH)
THE MAGNETIC SENSOR)
ATTORNEY DOCKET NO. HIRA.0149)

Honorable Assistant Commissioner
for Patents
Washington, D.C. 20231

LETTER

Sir:

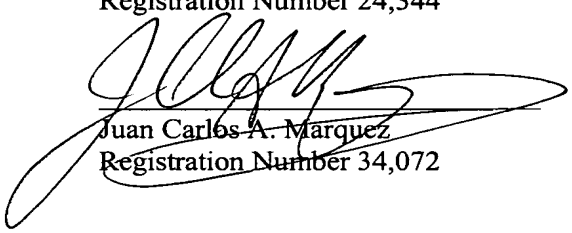
The below-identified communications are submitted in the above-captioned application or proceeding:

(x) Information Disclosure Statement w/refs

- ☒ The Commissioner is hereby authorized to charge payment of any fees associated with this communication, including fees under 37 C.F.R. § 1.16 and 1.17 or credit any overpayment to **Deposit Account Number 08-1480**. A duplicate copy of this sheet is attached.

Respectfully submitted,

Stanley P. Fisher
Registration Number 24,344



Juan Carlos A. Marquez
Registration Number 34,072

REED SMITH LLP
3110 Fairview Park Drive
Suite 1400
Falls Church, Virginia 22042
(703) 641-4200
AUGUST 16, 2004



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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449.

Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified, is submitted herewith.

CERTIFICATION

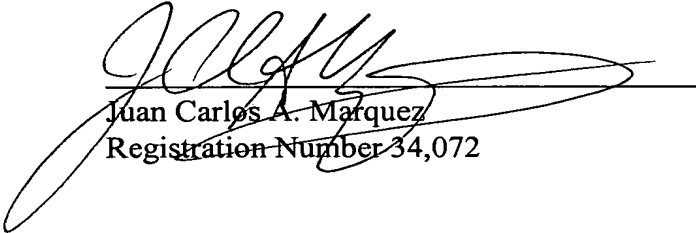
This Information Disclosure Statement is submitted after three months of the filing date but prior to the mailing date of the first Office Action of the above-captioned U.S. patent application. Accordingly, no fee is due or payable at this time.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Please charge any additional fees or credit any overpayments in connection with this paper to Deposit Account No. 08-1480.

Respectfully submitted,

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Form PTO 1449 U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	ATTY. DOCKET NUMBER PHIRA.0149	SERIAL NUMBER 10/849,516
	Takahashi et al.	
	FILING DATE May 20, 2004	GROUP 2652

U.S. Patent Documents

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

Foreign Patent Documents

Examiner Initial	DOCUMENT NUMBER	FILING DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						Yes	No

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

		Brataas, Arna, et al., "Spin accumulation in small ferromagnetic double-barrier junctions", Physical Review B, Volume 59, Number 1, January 1, 1999, PP 93-96
EXAMINER	DATE CONSIDERED	
<i>EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant</i>		

PTO1449